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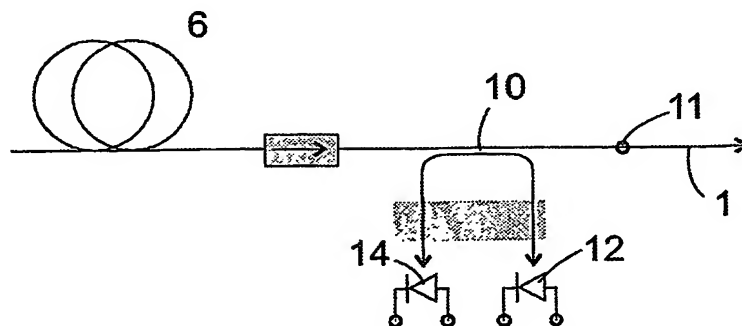
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(54) Title: OPTICAL COMMUNICATION NETWORK AND COMPONENT THEREFORE



(57) Abstract: A component for an optical communication network comprises a source (6) for an optical communication signal, an output port (11) for outputting the optical communication signal on an optical transmitting fibre (1), a light sensor (14; 15) and an optical circulator (9) for transmitting the optical communication signal from the source (6) to the output port (11) and for transmitting light reflected or received from outside at the output port (11) to the light sensor (14; 15). The light sensor (14; 15) has an evaluation circuit (13) connected to it for detecting a time delay between a

time marker of a light signal from the source and the corresponding time marker of the light arriving at the light sensor (14; 15).